

Title (en)

Cooler and process for cooling a medium

Title (de)

Kühler und Verfahren zum Kühlen eines Mediums

Title (fr)

Refroidisseur et procédé de refroidissement d'un fluide

Publication

EP 1288604 B1 20091014 (DE)

Application

EP 02017009 A 20020727

Priority

DE 10141490 A 20010824

Abstract (en)

[origin: EP1288604A2] A first passageway directs a cooling medium. A second passageway (28) directs a cooled medium such that the cooled medium flows in an axial direction (80) in one region, and the cooling medium flows in a radial direction (82,84) in another region. Independent claims are also included for the following: (a) a medium cooling method; (b) an automotive engine assembly; and (c) a fuel tank assembly.

IPC 8 full level

F02B 29/04 (2006.01); **F28D 7/06** (2006.01); **F28D 7/16** (2006.01); **F28D 9/00** (2006.01); **F28F 1/32** (2006.01); **F28F 1/34** (2006.01)

CPC (source: EP US)

F02B 29/0462 (2013.01 - EP US); **F28D 7/06** (2013.01 - EP US); **F28D 7/1676** (2013.01 - EP US); **F28D 9/0012** (2013.01 - EP US); **F28F 1/32** (2013.01 - EP US); **F28F 1/34** (2013.01 - EP US); **F02B 29/0412** (2013.01 - EP US); **F28D 2021/0082** (2013.01 - EP US); **F28F 2215/00** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Cited by

FR2845738A1; EP4145081A1; US11662149B2; US8132408B2; US8281849B2; WO2009073124A1; WO2007031229A1

Designated contracting state (EPC)

DE ES FR

DOCDB simple family (publication)

EP 1288604 A2 20030305; **EP 1288604 A3 20040407**; **EP 1288604 B1 20091014**; DE 10141490 A1 20030313; DE 50213913 D1 20091126; US 2003037917 A1 20030227; US 2005121176 A1 20050609; US 2007199683 A1 20070830; US 6857468 B2 20050222

DOCDB simple family (application)

EP 02017009 A 20020727; DE 10141490 A 20010824; DE 50213913 T 20020727; US 22619402 A 20020823; US 3331305 A 20050112; US 70377907 A 20070208